

INTELLECT

Computer Science and Engineering (AI & ML)

St. Martin's Engineering College

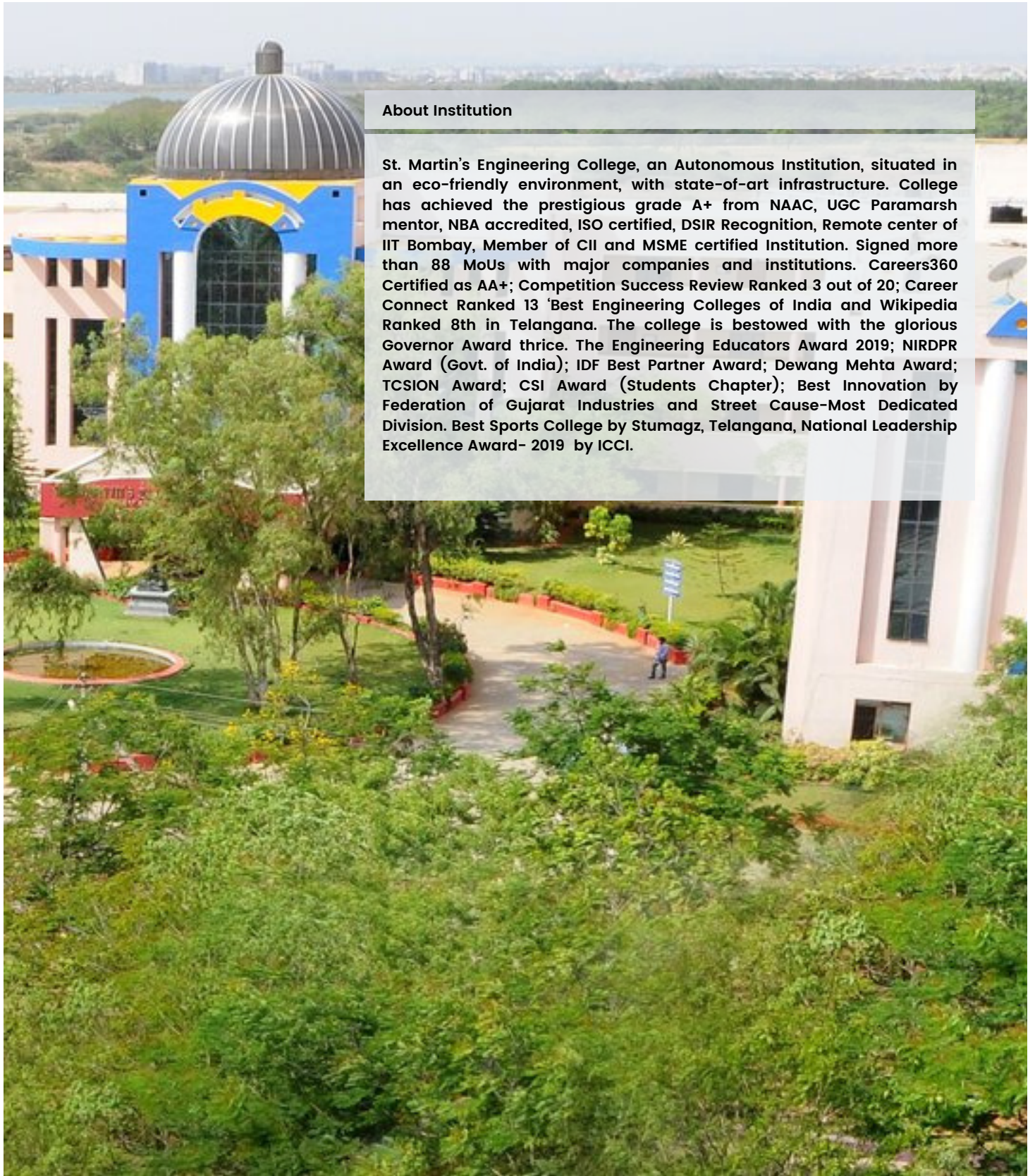
An Autonomous Institute
NBA & NAAC A+ Accredited
Dhulapally, Secunderabad - 500100



UGC AUTONOMOUS

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About Institution

St. Martin's Engineering College, an Autonomous Institution, situated in an eco-friendly environment, with state-of-art infrastructure. College has achieved the prestigious grade A+ from NAAC, UGC Paramarsh mentor, NBA accredited, ISO certified, DSIR Recognition, Remote center of IIT Bombay, Member of CII and MSME certified Institution. Signed more than 88 MoUs with major companies and institutions. Careers360 Certified as AA+; Competition Success Review Ranked 3 out of 20; Career Connect Ranked 13 'Best Engineering Colleges of India and Wikipedia Ranked 8th in Telangana. The college is bestowed with the glorious Governor Award thrice. The Engineering Educators Award 2019; NIRDPR Award (Govt. of India); IDF Best Partner Award; Dewang Mehta Award; TCSION Award; CSI Award (Students Chapter); Best Innovation by Federation of Gujarat Industries and Street Cause-Most Dedicated Division. Best Sports College by Stumagz, Telangana, National Leadership Excellence Award- 2019 by ICCI.



About Department

Department of Computer Science and Engineering (AI & ML) was established in the year 2020 with an intake of 60. The Department has well equipped laboratories with latest configuration systems and updated licensed software were installed.

Student's chapters of professional societies like TAM, CSI, & ISTE, which aim at tapping the inner abilities and showcase their talents. Various social services through NSS, CLUBS, and ISR for holistic development of our students.

We encourage student to improve Self-Learning skills, by providing round the clock on-line Resources from various sources like NPTEL, MOOCS, SWAYAM, OPAC, IEEE, SPRINGER, J-GATE etc., Students will be benefited to update their skills and they become a Global leader with latest technologies.

The department has collaboration with various industries offering credit courses, conducting workshops & faculty development programs, offering internships, projects and placements etc. Students are sent on industrial visits to companies and they also undergo in-plant training at top level industries as well. Students are eligible to obtain successful placements at leading companies like Infosys, Wipro, Cognizant, TCS, IBM, Microsoft, Oracle, Tech Mahendra etc.

Message from Principal and Group Director



DR.P.SANTOSHKUMAR PATRA

The essence of learning lies in pursuing the truth, St. Martin's Engineering College firmly believes that education is way to success. It is a matter of great pride and honor that the news Letter 'INTELLECT' released by the Department of Computer Science and Engineering (AI & ML). The Department of CSE (AI & ML) was established in the year 2020 and organized various events such as Guest lecture, Webinar and Industrial visits. The faculty members and students published many research papers in various National and International journals including UGC Care, Scopus and SCI. I wish the faculty members and students for their significant achievement and commitment. I appreciate the sincere efforts of Dr. K.SRINIVAS, HOD of CSE (AI & ML) to guide and bring out the talent of the faculty members and students. I congratulate the editorial board of this news letter who have played wonderful role in accomplishing the task in stipulated time. My heartfelt congratulations to all the faculty members and students of Department of CSE(AI & ML) for their fruitful effort and contribution. All the youth must be visionary and cautious of their deeds. Strive hard as there is no shortcut for success. Lead your career with your smart work rather than hard work. I wish all the best for the Academic, Research and Developmental activities in the Department to achieve greater heights.

Message from Head of the Department



DR.K.SRINIVAS

It gives me great pleasure to share the technical newsletter of our Department. 'INTELLECT' This newsletter is a nice blend of achievements of students and faculty. It is a great pride to be part of the team which strives to bring out the talents of the students and staff. I wish to record my hearty congratulations to those who have brought laurels to the department, appreciate all of you for working together as a team. I am confident that this newsletter consists of informative articles and new concepts will be appealing and valuable to the readers. Reading this technical Newsletter will undoubtedly inspire and motivate all students and faculty to contribute even more to future issues. I thank our Principal Sir for encouraging and motivating us to organize various events, publishing articles in journals, conferences, patents and writing books. I am delighted to congratulate the editorial team for their efforts in publishing this Newsletter. I take this opportunity to express my sincere thanks to all the members of the faculty and students of CSE(AI & ML) Department for their sincere involvement and contribution. I extend best wishes for the success of this endeavor.

Department Vision

To achieve Excellence in Computer Science and Engineering and Artificial Intelligence and Machine Learning Education for Global Competency with Human Values and contribute significantly towards high quality technical education with ever changing world.

Department Mission

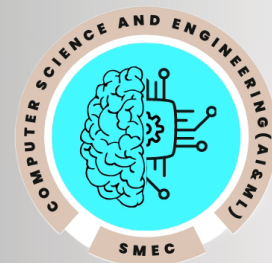
- To provide innovative Academic & Research Environment to develop competitive Engineers in the field of Artificial Intelligence and Machine Learning.
- To impart knowledge in cutting edge Artificial Intelligence technologies in par with industrial standards.
- To equip students with interdisciplinary skill sets to be able to build an intelligent system which in turn provides dynamic and promising careers in the global marketplace.



Artificial Intelligence & Machine Learning

AI is a tool. The choice about how it gets deployed is ours.

–Oren Etzioni



Department Board and Recognitions

Acheivements

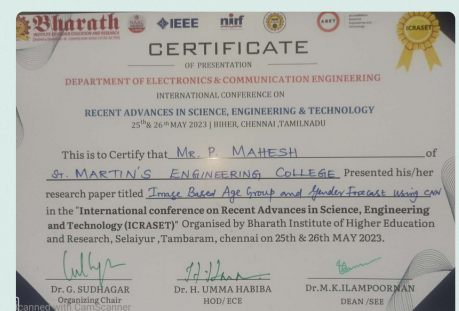
- Dr. K. Srinivas has participated and presented paper on "Feature Extraction and Analysis of Natural Language Processing for Deep Learning English Language" on February 25, 2023.
- Dr. K. Srinivas has participated and presented paper on "Home automation Systems Control using TV remote" on February 25, 2023.
- Dr. K. Srinivas has participated and presented paper on "Intelligent Intrusion Detection System using DNN" on February 25, 2023.



Department Board and Recognitions

Acheivements

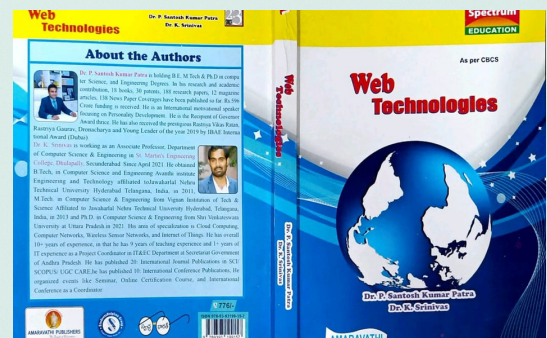
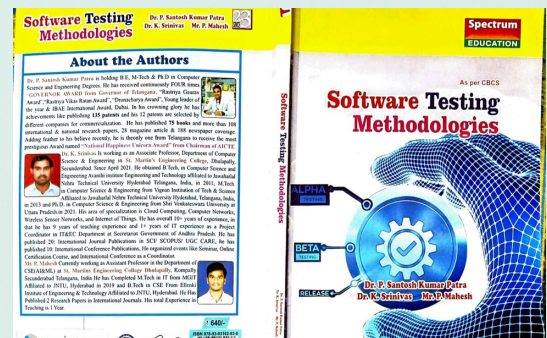
- Dr. Mr. D. Venkatesan has participated and presented paper on "Electronic Voting System with Privacy, Transparency and Security Using Public Blockchain" in International conference on Innovation and recent trends in computer science on February 24 – 25, 2023.
- Mr. D. Venkatesan has participated and presented paper on "Image Based Age Group and Gender forecast using CNN" in International conference on recent advances in science engineering and technology on May 25 – 26, 2023.
- Mr. P. Mahesh has participated and presented paper on "Image Based Age Group and Gender forecast using CNN" in International conference on recent advances in science engineering and technology on May 25 – 26, 2023.



Department Board and Recognitions

Book Publications

- Dr. K. Srinivas Published a Book titled "Natural Language Processing" in the academic year 2022-2023
- Mr. T. Selvamuthu Kumar Published a Book titled "Natural Language Processing" in the academic year 2022-2023
- Dr. K. Srinivas Published a Book titled "Software Testing Methodologies" in the academic year 2022-2023
- Mr. P. Mahesh Published a Book titled "Software Testing Methodologies" in the academic year 2022-2023
- Dr. K. Srinivas Published a Book titled "Web Technologies" in the academic year 2022-2023



Department Board and Recognitions

Patents

Dr. K. Srinivas Published Patents with the titles in the year 2023:

- Price Negotiating Chatbot on E-Commerce website.
- Detection of Cyber bullying on social media using machine learning.
- Image forensic for forgery detection in digital image copy and move.
- Image forensic for forgery detection in digital image copy and move.
- Detection of Fake Bank Currency using Machine Learning Algorithms.
- Machine Learning Techniques for Detection of Offensive and Hate Speech in Tweets of regional languages.
- Realistic Image Generation of Face from Text Description using the Fully.

D.Venkatesan Published Patents with the titles in the year 2023:

- An Effective Storage Management for University Library using Weighted K-Nearest Neighbor Algorithm
- Intrusion Detection in Cloud Architecture Using Machine Learning
- Predicting Consumer Intention using Logistic regression by analyzing Social -media data

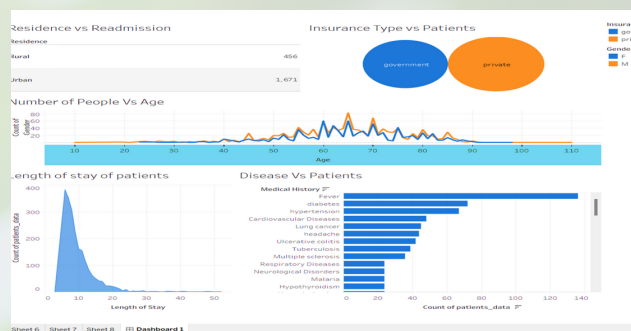
Students Achievements

Annual Sports Competition

- Won the Badminton (Doubles) competition in the college during the year 2023.
- Gahana Sree, Rajeshwari
- Runner up in the Badminton (Singles) competition in the college during the year 2023.
- Gahana Sree.
- Won Gold medal in Chess competition during the year 2023.
- S. Rohit Srinivas.
- Won Gold medal in Carrom competition during the year 2023.
- Manish Ambedkar, Aditya Madilla.
- Runner up in the Basket Ball Sport held during the year 2023.
- Aryan Yadav, N. Avinash Reddy, Aditya Lenka, Sarthak Rath, Ayush, Manish Ambedkar.
- Runner up in the Foot Ball Sport held during the year 2023.
- Aryan Yadav, Sarthak Rath, Kumaran, Bhargav Pattanayak, Jatin Vishwas, Manish Ambedkar, Rahil, G. Aryan Reddy, Anmol ELiazar Bonny, T. Sareen, Rohan, Ashrith

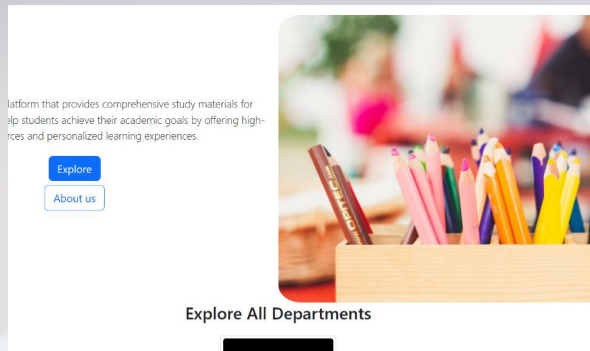
Student Innovations

Built a project in the stage-2 of virtusa jayayu Ideathon, the only team from St. Martin's Engineering College who got selected for stage 2 of the competition and got the opportunity to work under the virtusa mentors to build a brilliant project - Spheroid is a conversational AI chatbot implemented in Python that provides various functionalities like appointment scheduling-risk factor analysis, discharge planning



The application extracts data for the useful insights to make data-driven decisions, and as it interacts with users through GUI and provides effective response through by ML algorithms and various functionalities.

B.Pavan Kumar, A.Angel Mary Poulina, M.Sanjana, P.Vihari, Ch.Chinmai (III Year)



Built a project "Examslayer". It is a project built using Node.js, React, Express, and Bootstrap CSS. It aims to provide a platform for conducting providing Materials for CSE Students. The client-side code, written in React, consists of components and pages that allow users to view Subject Materials. The server-side code, implemented with Node.js and Express, includes routes, controllers, and models to handle data, user authentication, and database interactions.

Bootstrap CSS is utilized to ensure a responsive and visually appealing user interface. "Examslayer" offers a seamless and user-friendly experience for both exam takers and administrators as well as various users

Aryan Yadav, K.Avinash, K.Rakesh, V.Yuvaraj, M.Vineeth Reddy,N.Surya Tejas (III Year)

Academic Achievements

III Year

- M. Sanjana secured Rank 1 in the Academic year (2022-2023).
- V. Yuvaraj Nani secured Rank 2 in the Academic year (2022-2023).
- A. Angel Mary Poulina secured Rank 3 in the Academic year (2022-2023).
- C. Anush Kumar secured Rank 3 in the Academic year (2022-2023).
- M. Sree Lekha secured Rank 3 in the Academic year (2022-2023).
- K. Shanthi secured Rank 3 in the Academic year (2022-2023).

II Year

- B. Akhila secured Rank 1 in the Academic year (2022-2023).
- C. Rajarchitha secured Rank 2 in the Academic year (2022-2023)..
- N. Sai venkat prasad sree secured Rank 3 in the Academic year (2022-2023)

Events

Industrial Visit

The Department of Computer Science and Engineering (AI & ML) organized an industrial visit on 28th June, 2023 to the National Remote Sensing Centre (NRSC), Jeedimetla for the II year B. Tech II Semester students. The visit was organized with prior permission and guidance of our beloved Principal, Dr. P. Santosh Kumar Patra Sir and the HOD, Dr. K. Srinivas.



Considering the ever increasing demands of all stakeholders and users, a centralized Outreach Facility for NRSC is established at Jeedimetla, Hyderabad, integrating all the relevant activities namely, Training, Outsourcing, Exhibition Facility, Information Kiosks, Web Services and proposed Incubation Facility. Outreach facility is being used for enhancing capacity building activities that will meet the increased utilization of geospatial technology, geospatial data generation and analytics. This is helping to meet the requirement of additional training for officials of State / Central Government departments and ministries, supporting outsourcing work to meet the geospatial data generation envisaged under various national mission projects of ministries, to make the host of satellite data available to entrepreneurs for developing products and for increasing interaction with academia industries.

Events

Republic Day

The 74th Republic Day was celebrated with lots of patriotism and happiness by the Management, Staff and Students of SMEC. The national flag was hoisted by the Chairman Sri M Laxman Reddy Garu, The Executive Director Sri G. Chandra Sekhar Yadav Garu and Group Director and Principal Dr. P. Santosh Kumar Patra were also present during the flag hoisting. All the staff attended the flag hoisting with a deep sense of respect and national feeling.



Yoga Day



St. Martin's Engineering College celebrated the International Day of Yoga on June 21st with immense enthusiasm. Led by experienced instructors, students and faculty gathered on the campus grounds, practicing various yoga asanas, pranayama techniques, and meditation exercises. The session promoted physical strength, mental clarity, and unity among participants. Emphasized the importance of Yoga in maintaining a healthy lifestyle. The event concluded with gratitude and appreciation for embracing the transformative power of Yoga.

Freshers

The Freshers' Day event at St. Martin's Engineering College for the CSE-AI&ML branch was an exhilarating celebration, marking the beginning of an exciting journey for new students. The event fostered a sense of unity and enthusiasm, allowing freshers to connect with faculty members and senior students. Engaging activities and interactive sessions helped forge friendships and create lifelong bonds. The event provided valuable guidance on academic success and extracurricular involvement, inspiring freshers to embrace challenges and dream big. It served as a remarkable launching pad for their college adventure in the world of AI and ML.



Traditional Day

In this modernized world where people are forgetting tradition and culture the CSE (AI&ML) branch of St. Martin's engineering college organized a traditional day event on Chattisgarh tradition on 6th June 2023. The event was conducted under the supervision of Dr. K. Srinivas, the H.O.D of CSE (AI&ML), and aimed to showcase the rich and diverse culture of Chattisgarh state. The event featured various activities such as folk dance, tribal art, and traditional cuisine. The students and faculty members participated enthusiastically and learned about the history, geography, and customs of Chattisgarh. The event was a success and received positive feedback from everyone who attended.



National Cadet Corps



NCC (National Cadet Corps) plays an important role in shaping the character and leadership qualities of students at St. Martin's Engineering College, and the participation of girls in NCC is highly encouraged. The college provides equal opportunities for girls to join the NCC program and actively participate in its various activities.

NCC girls at St. Martin's Engineering College are an integral part of the NCC unit on campus. They undergo rigorous training that includes physical fitness, discipline, leadership, and social service. The college recognizes the importance of empowering girls and instilling in them a sense of self-confidence and resilience through the NCC program.

The college provides a supportive and inclusive environment for NCC girls, ensuring their safety and well-being. They are offered guidance and mentorship by experienced NCC officers and senior cadets. This support system encourages the NCC girls to reach their full potential and become well-rounded individuals.

Events Attended

ML Workshop

Guest Lecture

Technovation

Industrial Visit

ReactJS Workshop

Digital Marketing Workshop

Technical Talkshow(TAM)

Traditional day



Students Experience

I am so happy to share my student experience at St. Martin's engineering college and CSE(AI&ML) branch. It has been a wonderful journey of learning and growing with amazing faculty and peers. The college has a state-of-the-art infrastructure and facilities that support our academic and extracurricular pursuits. The CSE(AI&ML) branch is one of the most sought-after and innovative courses in the country, offering a comprehensive curriculum that covers both theoretical and practical aspects of artificial intelligence and machine learning. I have gained valuable skills and knowledge that will help me in my future career and research endeavors. I am proud to be a part of this prestigious institution and branch.



Illuri Dhanyata
II Yr CSE(AI & ML)



Aryan Yadav
III Yr CSE(AI & ML)

In the year 2020, a momentous journey in the realm of artificial intelligence commenced at St. Martin's Engineering College, shaping my path towards a future filled with boundless possibilities. From the very first day, the college emanated an electrifying energy and a sense of belonging that made it feel like a second home.

Engaging in webinars and workshops conducted by industry experts became a regular part of my journey, allowing me to stay at the forefront of the rapidly evolving AI landscape. The invaluable knowledge and practical skills acquired from these events, combined with the comprehensive theoretical foundation laid in classrooms, equipped me to tackle real-world challenges with confidence and finesse.

Students Experience

I love being a student at St. Martin's engineering college in the branch of CSE(AI&ML). It is such a stimulating and rewarding environment where I can learn from the best faculty and peers. The curriculum is well-designed and up-to-date with the latest developments in artificial intelligence and machine learning. The labs are equipped with state-of-the-art hardware and software that allow me to experiment and innovate. The college also offers many opportunities for extracurricular activities, internships, projects and competitions that enhance my skills and confidence. I feel proud to be part of this prestigious institution and I look forward to a bright future in this field.



K U Naga Vara Prasad Reddy
II Yr CSE(AI & ML)



S. Rama Rajeshwari
III Yr CSE(AI & ML)

My experience at St. Martin's Engineering College in the CSE-AI&ML branch is truly remarkable. The faculty is knowledgeable and supportive, and the curriculum strikes a perfect balance between theory and practical application. The college provides state-of-the-art facilities and industry collaborations, allowing us to work on real-world projects and stay updated with the latest trends. The emphasis on research and extracurricular activities enhances our skills and fosters a sense of teamwork. Overall, St. Martin's provides a transformative learning experience in AI and ML, equipping us with the necessary skills for success in the industry.

Student Clubs



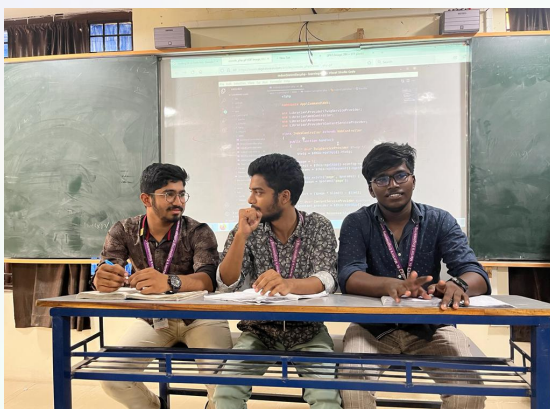
Ethical Hacking Club

Helps to create awareness on cyber threats and to understand how hackers breach our data few demos and projects like firewall creation are made in club in a professional way.



Internet Of Things (IOT) Club

Helps to encourage & master the students in the IOT and related domains & develop new industry ready skills along with the work on practical projects to gain knowledge in IOT.



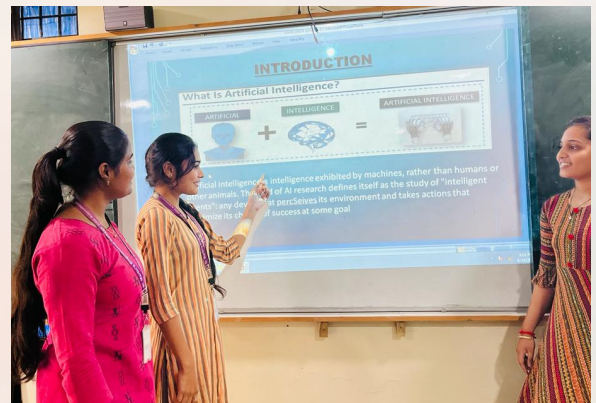
Coding Club

It helps to improve the coding skills of the students with there logical thinking ability and complex coding projects, competitive and dynamic programming.

Student Clubs

AI & ML Club

Helps to create better understanding and form perfect bond between man and machine understand the risks of misusing the AI. It Mainly deals with fundamentals and applications of Artificial Intelligence & Machine Learning in the real world.



Web Designing Club

In the current world, website creation has become a necessity for every company and startups.

Web designing club helps students in learning frontend and backend technologies which are useful for website creation and practically helps students to create websites and deploy.



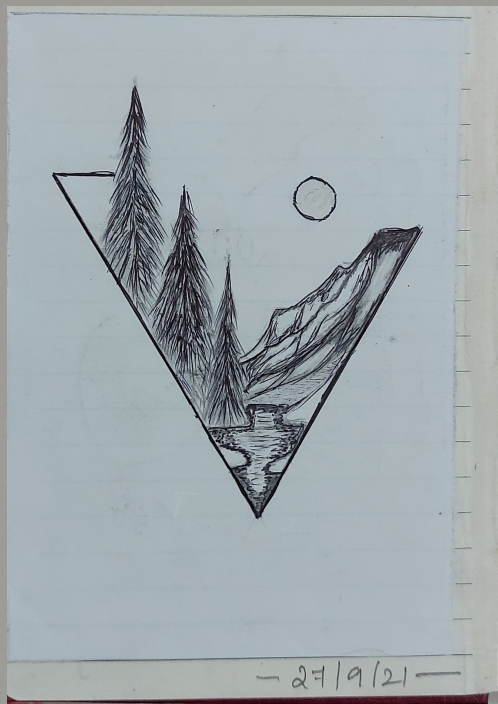
Department Gallery



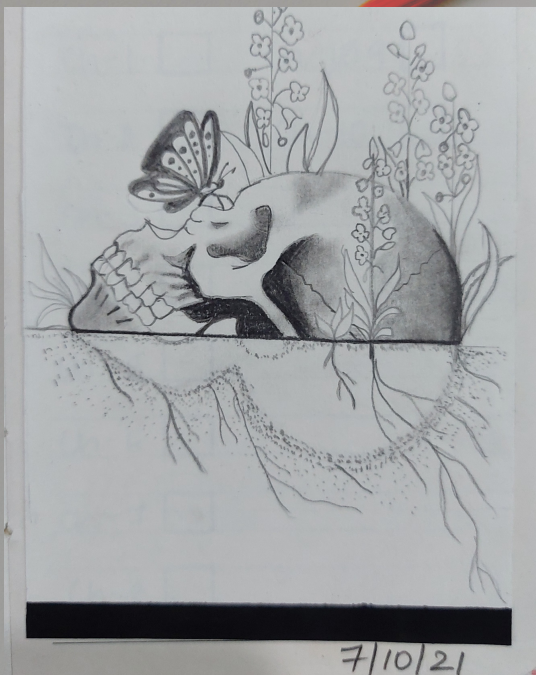
Department Gallery



Creative Corner



Illuri Dhanyata
(II Yr CSE(AI & ML))



Creative Corner

పరీక్ష

విద్యార్థికి అనిపించును శిక్షని పరీక్ష
దీక్ష పెట్టి కాంక్షిస్తే సాధించిన లక్ష
విద్యార్థి అపేక్షిస్తే తాకును అంతరిక్ష
కక్షలేక చదువు పైన దీక్ష పెట్టు శిష్యు

బారिश

कितने वर्ष कठं में बारिश की गुजारिश
क्यों ना सूरज से कठं में सिफारिश
ताकि मुझे मिले अंबुद की बारिश
बरसात की बूंद पर गिरी लहरें करते हैं सतरंग की परवरिश
इन रंगों से करते हैं दिलों को वश

Void

Nought is a man born of, nix is what he takes to non
existence.
Zilch is his toil zero his grind.
Immersed he is in lifeless fortune only to perceive
void his find



- By Avinash Kuppam

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